OHD 041064>6>



May 6, 2013

VIA OVERNIGHT MAIL

Mr. Peter Ramanauskas U.S. EPA Region 5 77 West Jackson Boulevard Mail Code LU-9i

University Health Services

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Chicago, Il 60604-3507

Re:

Final PCB Soil Remediation Project Report, Morgens Hall, University of

Cincinnati

Dear Mr. Ramanauskas

This letter has been prepared by the University of Cincinnati to transmit the final PCB Soil Remediation Project Report prepared by the consultant Cardno ATC (formerly ATC Associates Inc.) that documents the soil remedial activities performed and the postremedial site conditions adjacent to Morgens Hall, on the University of Cincinnati campus in Cincinnati, Ohio. This work was conducted as part of a larger revitalization project within Morgens Hall. The work remediation activities were completed in accordance with the U.S. EPA – approved Soil Remediation Work Plan Specifications

If you have any questions, comments or require further information, please contact me at 513-556-4979.

Sincerely

Mr. Jan Utrecht, M.S.

Director, Environmental Health and Safety

University of Cincinnati

Jack Schnieder, Project Manager, University of Cincinnati w/o Attachment cc:

SOIL REMEDIATION

Morgens Hall University of Cincinnati 2931 Scioto Lane Cincinnati, Ohio

Cardno ATC Project No. 72.41360.0003



Richard Fleischman + Partners Architects, Inc. Attn: Mr. Aaron Hill, AIA 1020 Huron Road, Suite 101 Cleveland, Ohio 44115

April 30, 2013



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1.0 INTRODUCTION

Cardno ATC (formerly ATC Associates Inc.) completed oversight of soil remedial activities near Morgens Hall on the University of Cincinnati campus at 2931 Scioto Lane, Cincinnati, Ohio, during February, 2013. The purpose of the project was to address polychlorinated biphenyl (PCB)-impacted soil in the subject area. Work was completed in general accordance with a U.S.EPA-approved *Soil Remediation Work Plan Specification* dated November 14, 2012. This report documents soil remedial activities and post-remedial site conditions.

1.1 Background Information

PCB-containing caulk was discovered around windows in Morgens Hall in association with pre-construction safety testing during the spring of 2011. Pursuant to such discovery, limited soil sampling and analysis was conducted around Morgens Hall on July 26, 2011. Analytical data quantified the presence of PCBs in shallow soils at a maximum of 18.6 mg/kg.

Followup soil sampling and analysis was conducted on September 7, 2011. Surficial soil samples were collected from similar locations and analyzed for PCBs. PCBs were again quantified locally (maximum of 2.88 mg/kg).

Additional sampling and analysis was performed using a grid-based approach during July – September 2012 to investigate the lateral and vertical extent of PCB impact. Findings from such study indicated that impact was surficial in nature and limited laterally to the area immediately adjacent to Morgens Hall to the west, locally extending further west to the sidewalk (see Figure 1). The total volume of PCB-impacted soils was estimated to be approximately 60 cubic yards (equivalent to approximately 90 tons).

1.2 Purpose and Organization

The objective remedial activity was to address PCB impact identified at the site, such that post-remedial conditions met applicable or relevant and appropriate requirements (ARARs). The University of Cincinnati was responsible for overall management of the project. Cardno ATC acted as the University's representative in the field, overseeing soil remedial activities and conducting post-remedial soil sampling/analysis. The remediation contractor (O'Rourke Construction) was responsible for construction-related activities associated with the project.

2.0 REMEDIAL OBJECTIVES

2.1 Project Approach and Remedial Design

The area of impact consisted of shallow, grass-covered topsoil and silty clay. PCB impact was surficial in nature (did not extend beneath a depth of six inches) and was limited in its lateral extent as shown in Figure 1. Impacted soil was remediated through excavation and off-site disposition, with post-remedial sampling and analysis to confirm that remedial objectives were met.

2.2 Remedial Action Objectives

Remediation objectives for the site were two-fold:

- excavate and dispose of PCB-impacted soils from the area of concern in a controlled and safe manner in order to eliminate the direct contact exposure pathway, and
- prevent release of PCBs from impacted soils to the environment (air, water and soil) during remedial activity.

To achieve these remedial objectives, the following specific elements were implemented:

- excavation of shallow PCB-impacted soils,
- · off-site disposal of excavated soils at an approved landfill/treatment facility, and
- sampling and analysis of residual soils to confirm successful achievement of remedial objectives, performed in a similar grid fashion/frequency to that implemented during site characterization.

2.3 Action Levels

Toxic Substances Control Act (TSCA) standards for spill cleanup (structured for spills of PCB-contaminated transformer oils) and risk-based PCB standards available through Ohio's Voluntary Action Program (VAP) were utilized as ARARs. Both standards invoke an action level of 1 mg/kg for a residential exposure scenario (equivalent to a "high occupancy" area under TSCA). Although neither standard is directly applicable to the subject site, 1 ppm was utilized as an ARAR to evaluate PCB concentrations in soils at the site, given site use as a university with a nearby residence hall.

3.0 HEALTH AND SAFETY

Remedial activities were performed in a manner that was protective of human health and the environment. Project health and safety measures are summarized in this section.

3.1 Health and Safety Plan

An environmental health and safety plan (HASP) was prepared for the project and implemented in accordance with 40 CFR 1910.120. The plan was based upon a review of previous assessment data from the site. The HASP outlined environmental hazards, recommended personal protective equipment, and decontamination procedures. Remedial activities were performed in accordance with HASP requirements and all personnel were required to comply with the HASP.

The Remediation Contractor prepared a HASP specific to their employees and work practices. The Contractor's HASP was prepared to comply with 29 CFR 1910.120.

Tailgate meetings were held at the beginning of each work shift to emphasize project health and safety, specific hazards of the areas to be entered, and work objectives for that period.

A Site Health and Safety Officer (SHSO) was designated by the Remediation Contractor who was responsible for ensuring that the HASP was implemented and that work practices were conducted in a safe manner. On-site conditions were monitored by the SHSO to ensure that conditions did not exceed Occupational Safety and Health Act (OSHA) exposure thresholds.

All personnel entering the exclusion zone (i.e., the area of remedial excavation) were required to review, sign and follow the HASP. Personnel working in the exclusion zone were required to have 40-hour OSHA training (with annual refreshers) per 29 CFR 1910.120. All visitors to the project site were instructed about the hazards of on-site activities and signed a Visitor's Log.

3.2 Utility Clearance

The HASP required notification to the Ohio Utility Protection Service a minimum of 48 hours prior to excavation activities. Existing utilities were identified and visibly marked by flagging; marking was the responsibility of the University of Cincinnati or its representatives. Prior to construction, the Remediation Contractor submitted plans and obtained approval from the University of Cincinnati detailing how identified utilities were to be handled.

4.0 SOIL REMEDIATION

4.1 Soil Excavation

Soil handling, remediation, and excavation were conducted by O'Rourke Construction a qualified, HAZWOPER-trained contractor. Excavation was performed to a depth of approximately six inches below existing grade. Grade stakes, pre-marked in six-inch increments, were driven to a depth of 18 inches and used as cut markers. The original excavation area is shown in Figure 1. No shoring was required around the perimeter of the excavation given its shallow depth.

Excavation activities were initiated on February 18, 2013. A Cardno ATC geologist was onsite to direct and monitor excavation activities, and observe the nature of the material being excavated. The nature of the materials encountered did not change significantly from materials encountered during the previous investigations; therefore no such materials were segregated.

At the completion of excavation activities, soil samples were collected and analyzed on an expedited basis, as detailed in Section 5.0. Based upon findings from such sampling, additional excavation was required north and west of cell #10 to meet remedial objectives. The remedial excavation was extended approximately 10 feet north of cell 10 on February 21, 2013, and 15 feet west of cell #10 (including its northern extension of 10 feet from the preceding over-excavation) on February 26, 2013.

Impacted soils were loaded directly into lined roll-off boxes placed on-site adjacent to the excavation area. Soil conditions that required further characterization prior to disposal were not encountered.

4.2 Transportation and Disposal

Previous soil data from the area of impact was utilized to complete the profile for waste disposal. Cardno ATC provided characterization data, laboratory reports, and assisted O'Rourke with profile completion. Although data did not suggest that total PCB concentrations exist in excess of 50 ppm (18.6 ppm total PCBs was the maximum quantified in the subject area), impacted soils removed from the site were managed as a TSCA waste.

Material removed from the site was hauled by truck in accordance with applicable federal, state, and local rules and regulations in effect for the transportation of soil and concrete. Soils were disposed of at the below-referenced facility:

Wayne Disposal, Inc. (The Environmental Quality Company) 49350 N I-94 Service Drive Bellevue, Michigan 48111 EPA ID# MID048090633

PCB-impacted soils removed from the site were manifested, with the University of Cincinnati identified as the generator of the waste. Cardno ATC's representative was provided with a copy of the manifest for each truckload leaving the site. Each driver was required to have

the manifest signed at the disposal facility to document both the disposal of the load and the quantity of material disposed. Completed manifests were returned to the University by noon of the following workday.

Eleven roll-off boxes of PCB-impacted soil (167.78 tons) were removed from the site and disposed of at the above-referenced facility. Disposal documentation is provided in Attachment A.

4.3 Decontamination

To the extent practical, efforts were made to limit the contact of remedial equipment with impacted soils. Any equipment that contacted impacted soils was decontaminated before working in clean areas of the site and prior to leaving the site. Decontamination consisted of gross removal of soils from excavation/ processing equipment using brushes to remove visible soil adhering to the machine. Impacted soils brushed from equipment were contained and disposed with soils to be transported off site.

O'Rourke was required to keep dirt and dust off of the adjacent public roads. All loads in and out of the site were covered.

4.4 Site Restoration

Once confirmatory analytical data was received that documented the achievement of remedial objectives, the area was restored to its original condition. Site restoration was the responsibility of the University of Cincinnati. It was our understanding that the area was to be backfilled to an elevation consistent with the surrounding grades with "clean" fill material, covered with topsoil, seeded and strawed.

5.0 SAMPLING AND ANALYSIS

5.1 Post-Remedial Soil Sampling

At the completion of excavation activities, soil samples were collected to document post-remedial conditions. Samples were collected on a 1.5 meter interval from the floor of the excavation, as outlined in 40 CFR 761.61(a)(6) Subpart O. This grid system resulted in the collection of 18 evenly spaced samples from each of the 27.5 x 17.5 feet "cells" previously established at the site. Each subset of samples from each cell was composited in the laboratory prior to analysis, thereby resulting in the laboratory analysis of a total of 8 composite floor samples. Each sample was labeled with a prefix of the cell identification that it is collected from, followed by the grid # (i.e., samples from cell 1 was labeled C-1-FL).

Exterior sidewall samples were collected and analyzed on the same frequency as noted above. Samples were not collected from the sidewalls against paved surfaces (i.e., the building or sidewalks). Each sidewall sample was composited for the given surface from each cell. A total of seven sidewalls were sampled: three consisted of a composite from six samples, and four consisted of a composite from three samples. Thus, a total of 30 sidewall samples were collected, and composited into seven samples for laboratory analysis. Sidewall samples were labeled as above, with identification of the wall sampled (i.e., C-1-SW for the first sample from the south wall from cell #1).

Samples were collected from exposed soil surfaces with a stainless steel trowel. The trowel was decontaminated between sample sets. The sampler wore nitrile latex gloves that were changed between samples to prevent possible cross-contamination.

Samples were sealed in two-ounce glass jars with Teflon-lined lids (placed on ice upon collection) for laboratory analysis. Each sample was assigned a unique identification number. Each sample jar was labeled with the identification number, sampling date, sampling time, and project name. Samples were transported using chain-of-custody controls to ALS Global Laboratory's facility in Blue Ash, Ohio. Samples were analyzed for total PCBs by SW 846 Method 8082 on a 24-hour rush turnaround basis. Copies of laboratory reports are included in Attachment B.

Any sampled excavation surface that did not meet the remedial objective (i.e., lab data met or exceeded the 1 ppm total PCB remedial objective) was over-excavated laterally at the direction of the University of Cincinnati field representative, as detailed in Section 4.1. Although the west wall of cell #10 did not exceed the ARAR, the decision was made to conservatively excavate shallow soils from cell #17, based upon findings from the west wall of cell #18 (see Figure 2).

Excavated soils were direct-loaded for off-site transport/disposal as noted in Section 4.2. Any over-excavated areas were resampled using protocols outlined above. This process was repeated until post-remedial soil conditions satisfied the remedial objectives. General sample locations (the excavation surface from which they were composited) and analytical data are shown spatially in Figure 2. Laboratory analytical data are summarized in Table 1. Data from samples that were over-excavated are shaded in the table and figure.

5.2 Quality Assurance/Quality Control

Data quality objectives were consistent with those as outlined in USEPA Guidance for Superfund Sites. Such QA/QC procedures called for the collection and analysis of trip blanks, equipment blanks, field blanks and blind duplicates for field activities, generally on a one per twenty samples to be analyzed basis). A trip blank was submitted with each set of samples analyzed. One equipment blank, one field blank and one blind duplicate were also submitted for analysis.

Blanks were collected using distilled water. Each trip blank was prepared at Cardno ATC's office and placed in the cooler prior to being transported to the site. The field blank was filled in the field concurrent with sample collection. The equipment blank was collected from rinseate off the trowel, following decontamination between sampling of the fourth and fifth cell. A duplicate set of samples was collected (consisting of 18 samples) from the fourth cell, and submitted "blind" to the laboratory for compositing prior to analysis. It was labeled with a prefix of "8" (C-8-FL).

All of the samples were extracted by SW 846 Method 3550 and analyzed for total PCBs via SW 846 Method 8082. Internal QA performed by the laboratory included one Matrix Spike/Matrix Spike Duplicate per 20 samples, a Laboratory Control Sample (a spike blank), and a laboratory blank. Data validation was performed by ALS, and reviewed by Cardno ATC. ALS's complete QA plan is available for review upon request.

PCBs were not detected in any of the blanks analyzed. Laboratory QC results met laboratory specifications. Analytical data from the duplicate sample (C-8-FL) and the original (C-4-FL) were both non-detect with identical detection limits. QA/QC duplicate sample results were compared to original sample results. Relative percent difference (RPD) was used as a measure of duplicate variance from the original sample (see QAPP). A RPD less than 50% for soils was considered acceptable. RPD was calculated for the subject sample pair. The RPD was 0% which is well within the acceptable range.

Review of QA/QC information suggests that collected data meet data quality objectives, and that the data may be relied upon to support the conclusions of this study.

6.0 CONCLUSIONS AND RECOMMENDATIONS

PCB-impacted soil was removed from the subject area of impact along the west side of Morgen's Hall on the University of Cincinnati campus during February, 2013. Eleven roll-off-boxes (167.78 tons) were removed and disposed of at Environmental Quality's Wayne Disposal facility in Bellevue Michigan. Post-remedial sampling analysis did not quantify residual conditions in excess of the ARAR of 1 ppm total PCBs.

Findings as outlined above indicate that remedial objectives were met for the project. Accordingly, no further investigation is recommended.

7.0 PROJECT DOCUMENTATION / CERTIFICATION

This report was prepared at the completion of remedial activities to document site remediation and associated post-remedial site conditions. The report includes a description of methodology, waste manifests, data summary tables, figures, and complete laboratory reports (including laboratory QA/QC). Work performed on this project has been performed in general accordance with standard industry practice and applicable regulatory protocols. We certify that the information contained within this report is an accurate representation of our methods and findings.

Matthew Munic	
Matt Overbeck, Staff Geologist	101
Report Author	

Michael J. Luessen, P.G./C.P., Principal Consultant Senior Reviewer

On behalf of the University of Cincinnati (the property owner and party conducting the cleanup), I certify that this remedial report, as well as pre-remedial sampling workplans and an associated *Soil Delineation* report will be maintained on file at the University of Cincinnati Office of Environmental Health and Safety, where it will be available for EPA inspection per 40 CFR 761.61(a)(3)(i)(E).

(signed name)

JAN ARTHUR CITRECHT

(printed name)

DIRECTOR, ENV. HEARTH & SAFETY

(title)

May 6, 2013

(date)

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Matthew Jacobs Matt Overbeck, Staff Geologist Report Author
Michael J. Luessen, P.G./C.P., Principal Consultant Senior Reviewer
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(signed name)
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(title)

(date)

LIST OF ATTACHMENTS

TABLES

Table 1 – Summary of Soil Analytical Results

FIGURES

Figure 1 – Original Excavation Area Figure 2 – Post-Remedial Soil Conditions

ATTACHMENT A

Waste Disposal Documentation

ATTACHMENT B

Laboratory Analytical Reports

TABLE

TABLE 1 - SUMMARY OF SOIL ANALYTICAL RESULTS

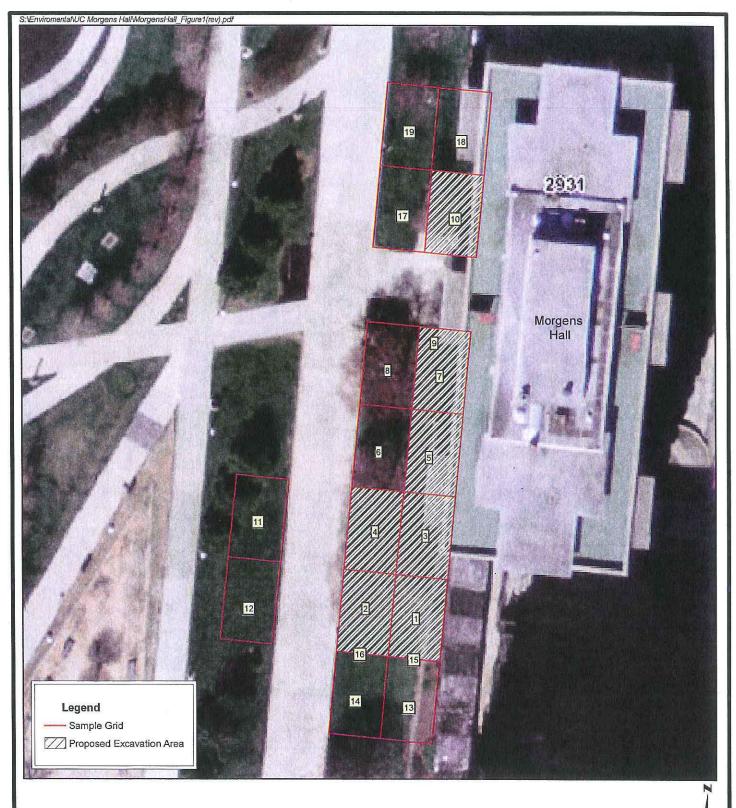
Morgens Hall University of Cincinnati Cincinnati, OH (all results in mg/kg)

	Sample ID	C-1-FL	C-1-SW	C-2-FL	C-2-SW	C-3-FL	C-4-FL	C-4-NW	C-5-FL	C-5-WW	C-7-FL	C-7-WW	C-10-FL	C-10-NW	C-10-WW	C-17-FL	C-18-FL	C-18-NW	C-18-WW	C-19-FL	C-19-NW
Depth (inches)		6	3	6	3	6	6	3	6	3	6	3	6	3	3	6	6	3	3	6	3
Date Collected		02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/19/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/18/13	02/26/13	02/21/13	02/21/13	02/21/13	02/26/13	02/26/13
	PCB-1016 (Aroclor 1016)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	,<0,019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0.22	<0.021	<0,022
	PCB-1221 (Aroclor 1221)	<0.43	<0.41	<0.41	<0.40	<0.45	<0.42	<0.42	<0.040	<0.041	<0.038	<0.044	<0.038	<0.040	<0.041	<0.040	<0.41	<0.42	<0.44	<0.043	<0.045
PCB	PCB-1232 (Arocior 1232)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0.021	<0.020	<0.20	<0.21	<0,22	<0.021	<0.022
SOS	PCB-1242 (Aroclor 1242)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0.020	<0.020	<0.019	<0,022	<0.019	<0,020	<0.021	<0.020	<0.20	<0.21	<0.22	<0.021	<0.022
8082	PCB-1248 (Aroclor 1248)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	<0,020	<0.020	<0.019	<0.022	<0.019	<0.020	<0,021	<0.020	<0.20	<0.21	<0.44	<0.021	<0.022
	PCB-1254 (Aroclor 1254)	<0.22	<0.20	<0.21	<0.20	<0.22	<0,21	<0.21	<0.020	<0.020	<0.019	<0.022	<0.019	<0.020	<0,021	0.11	0.37	0,25	1.3	0.41	0.26
	PCB-1260 (Aroclor 1260)	<0.22	<0.20	<0.21	<0.20	<0.22	<0.21	<0.21	0.093	0.31	0.13	0.18	0.28	1.0	0.31	<0.020	<0.20	<0.21	<0.44	<0,021	<0.022

^{*} Bolded Value exceeds the ARAR of 1 mg/kg

^{*} Shaded Column indicates data is from a surface that was removed/over-excavated

FIGURES



0 30 60

Aerial Photo Courtesy of CAGIS (2011)



ORIGINAL EXCAVATION AREA

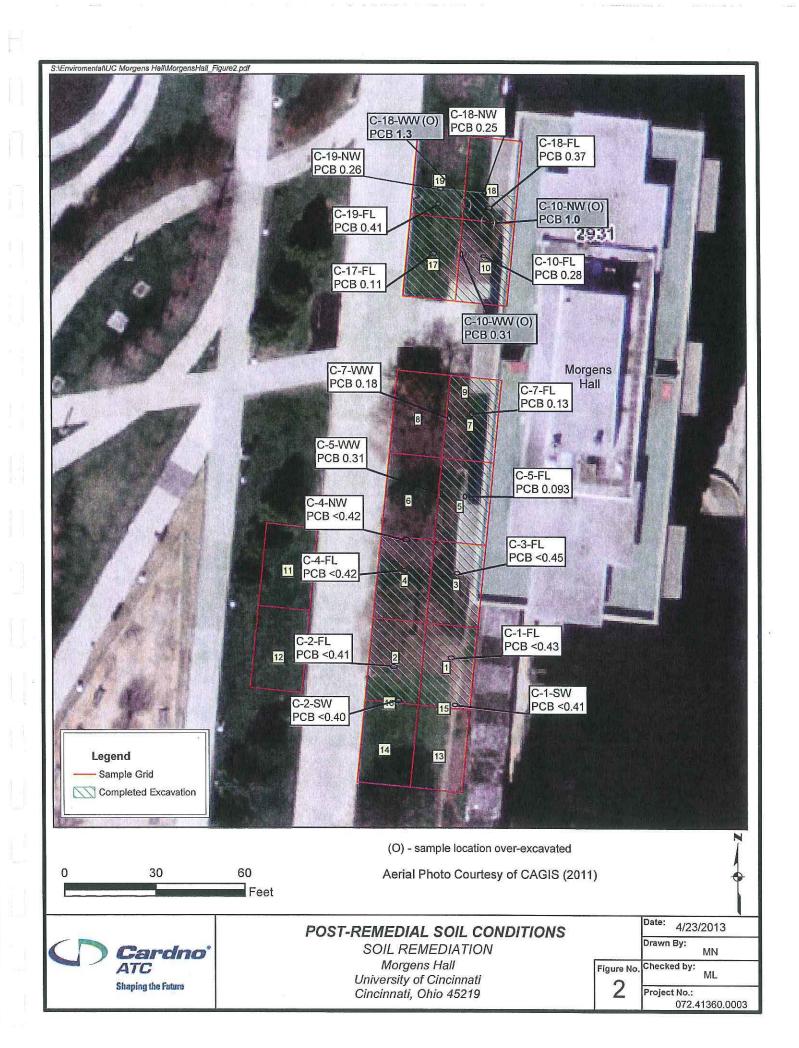
SOIL REMEDIATION Morgens Hall University of Cincinnati Cincinnati, Ohio 45219 Date: 04/30/2013

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ATTACHMENT A

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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228067 EQ Account #: 6041 Manifest / BOL: 000607696VES

Transporter: TRIAD

Date: 02/20/2013 Time In: 9:11 AM Time Out: 1:47 PM

Line	Description	Qty. Unit
	Generator	
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.870 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,540 Tare: 41,800 Net: 33,740	
2	Wayne Disposal Host Community Agreement Royalty Fee	16.870 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
•	Gross: 75,540 Tare: 41,800 Net: 33,740	
3	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,540 Tare: 41,800 Net: 33,740	

FOR MANIFESTED PCB WASTE

	fad an Mani	foot #	000 607 696 VES	. Line Item	has been landfilled on
and speci.	fied on Mani			, Lime Rem	has been fandiffied on
	Feb 20	, 	_ in accordance with all	local, state and fed	eral regulations by:
	_		_		
	1	Way	vne Dispo	sal, Inc	• / e
ner .			(EPA I.D. # MID04	8090633)	
			N. I-94 Service Drive, Belle	_	
			Telephone: 1-800-KWALIT Fax: 1-800-KWALFAX		
ه پ پي	e a Care	Ć1 C		C Calma in Considerations at	otomonts or representations (18 II S.C.
1001 and 15 U.S.C. 2	2615), I certify	that the in	formation contained in or ac	companying this docu	atements or representations (18 U.S.C. ment is true, accurate and complete. As
to the identified sect having supervisory re is true accurate and c	esponsibility fo	ocument for the person	or which I cannot personall ons who are acting under my	y verify truth and acco direct instructions ma	racy. I certify as the company official de the verification that this information
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				on eile (12-pitch) typew	riter.)								OMB No.	2050-0039
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		rator's Phonas: 513 50 especiar 1 Company Nam				***************************************	Unio		11 1942	U.S. EPAID N	mber			——
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П	7. Tra	risporter 2 Corepany Nam)#							U.S. EPAID N	NT Der			
	8, Dec	signaled Facility Name ar	d Site Addres	WAYNE DISPOS 49350 N I-94 SEI	ALINC					U.S. EPAID N	nuper			
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	Set.	·}~		Proper Shipping Name, Haz	and Class, ID Number,		Ţ	10. Contair		11, Total	12 Unit	13.	Waste Cod	. 1
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		3.				_,		·						
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	15.	GENERATOR'S OFFER marked and labeled/plect Exporter, I certify that the	OR'S CENTE arded, and an contents of t	A:EQB139019V0 B -5 TCATION: Thereby deckars in all respects in proper con- this consignment conform to 1 the consignment do CFR	that the contents of the dilion for transport action for transport action for transport action for transport actions of the attach	conting to appi ad EPAAckno	icable inte Madgmant	mational and nat of Consent.	ional govern	nembi regulations.				
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DESIGNATED FACILITY	Face	Alternate Facility (or Gen lity's Phone:	uraui}		•					و بروس سود	main/AN			
ATED	186	sy a France. Signature of Allemate Fa	city (or Gern	наки)					·			ľ	kanith C	ay Year
192	19.1	ezardous Weste Report	Managament	Method Codes (i.e., codes f	or hazardous waste fra			yding systems)						
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		Designated Facility Come ted/Typed Name	or Operator:	Tourse 4	zardous meteriels com		nifesi Exce	of an noted in its	m 16a		_		23	"/\ \
EP	A For	n 8700-22 (Rev. 3-05)	Previous e							DESIGNAT	ED FA	CILITY I	O GEN	EBATOR

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228068 EQ Account #: 6041

Manifest / BOL: 000607697VES Transporter: TRIAD

Date: 02/20/2013 Time In: 9:18 AM

		Time Out: 3:50 PM
Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	19.090 TONS
	OHD041084767 UNIVERSITY OF CINCINNATI	
	Gross: 70,160 Tare: 31,980 Net: 38,180	
2	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70,160 Tare: 31,980 Net: 38,180	
3	Wayne Disposal Host Community Agreement Royalty Fee	19.090 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 70 160 Tare: 31 980 Net: 38 180	

This certificate is to v	verify the wastes specified on Manifest #	060667697 VER
have been proper	ly disposed of in accordance with all local, state	e and federal regulations.
"Disposed	of" means either: 1) Burial or 2) Processed as specij	fied in 40 CFR et sea.
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	t Wayne Disposal, Inc. (EPA I.D. # MID048090633)
ADDRÉSS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	٠.
Authorized Signature:	me w	



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UNIFORNI HAZARDOUS I. Generator's ID Number WASTE MANREST OHO Q 4 1 Q 6 4 7 8 7 Generator's Name and Malting Address UNIVERSITY OF CINCINNATI EHAS FOR X 210218 CINCINNATI EHAS CINCINNATI E	7 <u>9</u> 1
S. Generator's Name and Malling Address UNIVERSITY OF CINCINNATI EH25 UNIVERSITY OF CINCINNATI CONCINNATI OH 45221-0218 UNIVERSITY OF CINCINNATI WEST CAMPUS 45 W CHARLTON STREET CINCINNATI, OH 45221 8. Transporter 1 Corpany Name TRIAD TRANSPORT, INC 7. Transporter 2 Company Name U.S. EPAID Number 49350 N I-94 SERVICE DRIVE Facility's Phone: 90.0 502-5480 BELLEVILLE, MI 45111 M. 1 0 0 4 8 0 0 0 9. U.S. DOT Description (including Proper Stipping Name, Hazard Class, ID Humber, No. Type Quantity Wh.Vel. 13. Wast	7 <u>9</u> 1
Generator's Phone: 513 558-4975 6. Transporter 1 Company Name TRIAD TRANSPORT, INC 7. Transporter 2 Company Name U.S. EPAID Number U.S. EPAID Number ### U.S. EPAID Number #### U.S. EPAID Number #### U.S. EPAID Number #### U.S. EPAID Number ##### U.S. EPAID Number ###################################	£ 3 3
6. Transporter 1 Company Name TRIAD TRANSPORT, INC 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address NAM EDISPOSAL INC 49359 N I-94 SERVICE DRIVE Facility's Phone: 90.0 502-5489 BELLEVILLE, MI 48111 99. 99. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Humber, No. Type Quentry White III. Total 13. West	£ 3 3
7. Timesporter 2 Company Name 8. Designated Facility Name and Site Address NAYNE DISPOSAL INC 49350 N I-94 SERVICE DRIVE Facility's Phone: 90.0 507-5480 BELLEVILLE, MI 48111 M. 1 0 2 4 8 0 9 0 98. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Humber, No. Type Quantity Wh.Vol. 13, Wast	£ 3 3
7. Thresporter 2 Company Name 8. Designated Facility Name and Site Address NAYNE DISPOSAL INC 49350 N I-94 SERVICE DRIVE Facility's Phone: 9. 90. U.S. DOT Description (including Proper Shipping Name, Hazard Class, 10 Humber, 10. Conteiners 11. Total 12. Unit 13. West	£ 3 3
Facility's Phone: 90.0 507-5480 BELLEVILLE, MI 49111 9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Mumber, HM and Packing Group (if any)) 10. Containers 11. Total 12. Unit 13. West 14. Oct 14. Oct 15. Unit 14. Unit 15. West 14. Oct 15.	
Facility's Phone: 90.0 507-5480 BELLEVILLE, MI 49111 9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Mumber, HM and Packing Group (if any)) 10. Containers 11. Total 12. Unit 13. West 14. Oct 14. Oct 15. Unit 14. Unit 15. West 14. Oct 15.	
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MM and Packing Group (if any)) No. Type Clushby Wit/Not 13, West	Codes
No. Type Custory MUVOL	
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by VESTS - - 1) W.341268 A.EQB139Q19WD1	
III - A.593	
15. GENERATOR'S DEFFEROR'S CERTIFICATION: I hereby decises that the contents of this consignment are fully and accurately described above by the proper stipping name, and are classified	nedwood
I rented and labeled placarded, and are in all respects in proper condition for transport according to applicable international and patiental provernmental regulations, if export showest and tark it	s Primary
Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Admonstration for (to) (if am a small quantity percentage) is true.	
Generator's/Offeror's Printed/Typed Name Namin Nam	Day Year
III MATT SCHNETZER IMAGA SCHUNZ 102	19 1/3
F-1 16. International Shipments Import to U.S. Export from U.S. Port of entry/sviit:	
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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228069 EQ Account #: 6041

Manifest / BOL: 000607698VES

Transporter: TRIAD
Date: 02/20/2013

Time In: 9:22 AM Time Out: 3:58 PM

					11116 Out. 0.36 1-W
Line	Description Generator		······		Qty. Unit
1 - 1	B139019WDI - Soil C	Contaminated with PCBs	3		14.650 TONS
	OHD041064767 UN	IVERSITY OF CINCINN	ATI		
	Grass: 70,940	Tare: 41,640	Net:	29,300	
2	DIG OUT				1.000 EACH
	OHD041064767 UN	IVERSITY OF CINCINN	ITA		
	Gross: 70,940	Tare: 41,640	Net:	29,300	
3	Wayne Disposal Hos	t Community Agreemen	t Royally	Fee	14.650 TONS
	OHD041064767 UN	IVERSITY OF CINCINN	IATI		
	Gross: 70,940	Tare: 41,640	Net:	29,300	

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have been proper	ly disposed of in accordance with all local, star	te and federal regulations.	
"Disposed o	of" means either: 1) Burial or 2) Processed as speci	ified in 40 CFR et sea.	
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plan (EPA I.D. # MID000724831)	nt Wayne Dispo	
ADDŘESS:	49350 N. I-94 Service Drive Belleville, Michigan 48111		
PHONE NUMBER:	1-800-592-5489		
FAX NUMBER:	1-800-593-5329		
	ka e 1		



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Plea		nt or type. (Form desig			itch) typewr	iter.)	. // 44-1						Form	Approved	I. OMB	lo. 2050-	0039
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	5. Ge	nerator's Name and Mallin	g Address	KN YER	976/9F	CINCINNA 45221-02	TI EHSS	Generator's Site Address (if different than mailing address)									
		rator's Phone: 519 50 Insporter 1 Company Nam				· ,	Char	511 At 115.2 1	[4 W/	i v veres	U.S. EPA ID N	lumber					
		AD TRANSPOR					j. i.e.		;			OKD		1 5 8	8 7	9 1	
	7. Tra	ansporter 2 Company Nam	e		,							U,S, EPAID N	lumber				
	8. De	signated Facility Name an	d Site Addres	**\VAYNE 40350 N	DISPOS I-44 SEF	ALING MICE DRA	/E .				· · · · · · · · · · · · · · · · · · ·	U.S. EPAID	lumber	·	-		
	Facil	製約 60 ily's Phone:		BELLEVI	····		·		·	•		MID	Q A	0 0	3 () (1 3 3	
	9a. HM	9b. U.S. DOT Descripti and Packing Group (if a	on (including any))	Proper Shipping	y Name, Haza	ırd Class, ID Num'	ber,		10. C	ontain	ners . Type	'11. Total Quantity	./12. Unit Wt.Nol.	13	. Waste C	odes	
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		Exporter, I certify that the I certify that the waste mir	contents of the imization sta	nis consignment	conform to the	e terms of the attr	ached EPAAckno	owledamen	t of Consen	t.			- `				
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ESIG	19, H	lazardous Waste Report N	lanagement i	Method Codes (l.e., codes for	hazardous waste	Irealment, dispo	sal, and red	ycling syste	ms)		44.4					
	Ľ	rca) 					·	Maria Maria	<u>}_</u>	· · · · · · · · · · · · · · · · · · ·		•				
	20. D Pointe	Designated Facility Owner of Facility decirons and Facility deciron and Facility decirons and Facility deciron	or Operator: (Certification of s	Scelpt of haza	rdous materials c		anlfest exce Signature	pt as noted	jd Item	1 184				917	18.14	9
EP/	Form	n/8700-22 (Rev. 3-05)	Previous ed	ditions are obs	olete.					J. J. J.	<u> </u>	DESIGNAT	ED FAC	JLITY T	O GE	NERAT	[]

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449

Receipt ID: 1228266 EQ Account #: 6041

Manifest / BOL: 000607699VES

Transporter: TRIAD
Date: 02/28/2013

Time In: 10:35 AM Time Out: 11:52 AM

		Time Out: 11:52 AM
Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.640 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,960 Tare: 41,680 Net: 33,280	
2	Wayne Disposal Host Community Agreement Royalty Fee	16.640 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,960 Tare: 41,680 Net: 33,280	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes in	identified as	peb sl.J
	00601699 VES,L	ine Item has been landfilled on
	n accordance with all local,	state and federal regulations by:
Wayr	ie Disposa	l, Inc.
. (1	EPA I.D. # MID0480900	533)
Tele	I-94 Service Drive, Belleville, Mephone: 1-800-KWALITY (592-53 Fax: 1-800-KWALFAX (592-53	2-5489)
1001 and 15 U.S.C. 2615), I certify that the inform to the identified section(s) of this document for w	nation contained in or accompary which I cannot personally verify	or fraudulent statements or representations (18 U.S.C. aying this document is true, accurate and complete. As a truth and accuracy. I certify as the company official instructions made the verification that this information
	Mh Wh	
Authorized Signature:		



OSL

P]ea	se prir	nt or type. (Form design	ned for use	on elite (12-pitch) typewriter.)							a Approved.	OMB No.	2050-0039
礻	UNIF	ORM HAZARDOUS	1. Generato	r ID Number	•	2. Page 1 of	3. Emer	gency Respons	e Phone	4. Manifest 7			<i>A</i> 9. 11.11	
Ш	W/	ASTE MANIFEST	OHD	04100	4767	4	(877)	918-0097		UU	UOL	770	U VI	= 5
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	8. Des	signated Facility Name an	d Site Addres	^{ss} Wayne Di 49350 N F9	SPOSALING 14 SERVICE D	RIVE		į.		U.S. EPAID N	lumber			
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	15.	GENERATOR'S/OFFERO	R'S CERTIF	FICATION: I hereby	declare that the conte	nts of this consignment	are fully a	ınd accurately d	escribed abov	e by the proper sh	lonina nam	e. and are cla	ssified, nack	aned.
	<u> </u>	marked and labeled/placa Exporter, I certify that the I certify that the waste min	rded, and an contents of t	e in all respècis in p his consignment cor	roper condition for tran rigitm to the terms of th	sport according to appl e attached EPA Acknow	icable inte vledgment	rnational and na of Consent.	kional governi	mental regulations.	If export si	nipment and I	am the Prim	ary ~
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	_	sporter signature (for expo		*				Date leav	ving U.S.:					
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l≿	185.	Alternate Facility (or Gene	//	WORZE I	CON Price 6	West L	М	an fest Reference	e Number:	U.S. EPA ID I	vumber	- E	1	-4 ¥
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E	Facili	ity's Phone:										·		
믬	180.	Signature of Alternate Fac	ality (or Gene	erator)								M	onth Da	y Year
DESIGNATED FACILITY	19. H	lazardous Waste Report M	/anagement	Method Codes (Le.	codes for hazardoiss	vaste treatment, dispos	al, and rec	volina sveteme			····	L		
띮	1.	NONE	3g 2111211t	2,		3.	-1 404 146			4,			 -	·
	20. D	Designated Facility Owner	or Operator:	Certification of rece	ipt of hazardous mater	ials covered by the mar	ifest exce	pt as noted in ite	سسر 18a m	<u></u>				· · · · · · ·
				Shith			gnature			The state of the s	2			A /a

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228134

EQ Account #: 6041

Manifest / BOL: 000607700VES

Transporter: TRIAD
Date: 02/22/2013

Time In: 10:26 AM Time Out: 1:01 PM

		Time Gut. 1.011 M
Line	Description	Qty. Unit
	Generator	
1 - 1	B139019WDI - Soil Contaminated with PCBs	18.750 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 82,420 Tare: 44,920 Net: 37,500	
2	Wayne Disposal Host Community Agreement Royalty Fee	18.750 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 82,420 Tare: 44,920 Net: 37,500	
3	DIG OUT	1.000 EACH
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 82,420 Tare: 44,920 Net: 37,500	

This certificate is	to verify the wastes specified on Manifest #	00060 7700 VES
have been pro	operly disposed of in accordance with all local, state	and federal regulations.
"Dispo	sed of" means either: 1) Burial or 2) Processed as specifie	d in 40 CFR et sea.
· · · · · · · · · · · · · · · · · · ·		
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)	Wayne Disposal, I (EPA I.D. # MID048090633
ADDRÉSS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	•
FAX NUMBER:	1-800-593-5329	
Authorized Signature:	hu wh	



Pleas	su pri	nt or type. (Form design	ned for use on a	slife (12-pitch) types	eriter.)							Approved.	OMB No.	2050-0039
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	8. De	signated Facility Name an			SAL INC	·		·		U.S. EPA IO N	umber	<u> </u>		
	Faci	ang 50 Wa Phone:	2-5480 B	ELLEVILLE, M	1 48111					MIC	0.4	8 6 8	3 £	3 3
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		marked and labeled/place Exporter, I certify that the	OR'S CERTIFICA arded, and are in a	EQB 13901@An INON: Thereby declar all respects in proper or consignment conform to	B-708 e that the contents of the condition for transport as to the attack	is consignment conding to app and EPA Ackno	ni are fully a dicable inte wiedgmen	and accurately demonstrated mail to Consort.	sscriped abovern	es by the proper of	ipping nam	e, and are de	asiliand, pac	kegad,
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EP/	A Fo	m 8700-22 (Rev. 3-05)	Previous edition	ons are obsolete.						DESIGNAT	En FA	CII ITY T	O GEN	EBATTA

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228220 EQ Account #: 6041

Manifest / BOL: 000607694VES

Transporter: TRIAD
Date: 02/26/2013
Time In: 2:11 PM
Time Out: 4:19 PM

Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	16.670 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,800 Tare: 42,460 Net: 33,340	•
2	Wayne Disposal Host Community Agreement Royalty Fee	16.670 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 75,800 Tare: 42,460 Net: 33,340	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as
and specified on Manifest # OGOGGTGT VES, Line Item has been landfilled on
in accordance with all local, state and federal regulations by:
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. At to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company officitation supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.
Authorized Signature:



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se print or type. (Form designed for use on elite (12-pitch) typewriter.)
UNIFORM HAZARDOUS 11. Generator ID Number Form Approved, OMB No. 2050-0039 4, Manifest Tracking Number 3. Emergency Response Phone 00060769 WASTE MANIFEST OHD 0 4 1 0 6 4 7 8 7 (877) 818-0087 Representation of the Address (If different then The Control of th 5. Generator's Name and Mailing Address 45X971220F CINCINNATI EH&S CINCINNATI, OH 45221-0218 45 W. CHARLTON STREET CINCINNATI, OH 45221 Generator's Phone: 513 558-4075 6. Transporter 1 Company Name TRIAD TRANSPORT, INC. U.S. EPA ID Number OKD 9 8 1 8 8 8 7 9 1 D.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address, ANA THE DISPOSAL INC. U.S. EPA ID Number 49350 M I-94 SERVICE DRIVE BELLEVILLE, MI 48111 900 502-5489 MID048090533 Facility's Phone: 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 9a. HM 13. Waste Codes and Packing Group (If any)) Wt.Nol. Quantity No. Туре EC EU Minis MON-REGULATED MATERIAL CONTAINING POBS 001 CM 15450 İs 14. Special Handling Instructions and Additional Information - ADDENOUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -F-1) W:341286 A:EQB139019WDI 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Generator's/Offeror's Printed/Typed Nam 16, International Shipments Export from U.S. Port of entry/exit: Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Month Day Year 02/21 LIENCH S Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Partial Rejection Full Rejection ___Type to remove waste code Par 18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Wenty mil

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228132 EQ Account #: 6041 Manifest / BOL: 000607695VES

Transporter: TRIAD
Date: 02/22/2013

Time In: 10:21 AM Time Out: 11:14 AM

		Time Out. 11.14 And
Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	15.780 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,320 Tare: 42,760 Net: 31,560	
2	Wayne Disposal Host Community Agreement Royalty Fee	15.780 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 74,320 Tare: 42,760 Net: 31,560	

	verify the wastes specified on Maintest #	000667695 VES
	ly disposed of in accordance with all local, state of" means either: 1) Burial or 2) Processed as specified	<u>C</u>
FACILITY NAME: (Please check one)	Michigan Disposal Waste Treatment Plant (EPA1D. # MID000724831)	Wayne Disposal, Inc (EPA 1.D. # MID048090633)
ADDRĒSS:	49350 N. I-94 Service Drive Belleville, Michigan 48111	
PHONE NUMBER:	1-800-592-5489	
FAX NUMBER:	1-800-593-5329	
	M/ 1.1	



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Authorized Signature:

Truck 133D

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	5. Generator's Name and Mailing Address: It different UNIVERSITY OF CINCINNATI EH2S UNIVERSITY OF CINCINNATI OH 45221-0218 Generator's Proce: 513 558-4975										ben melling address) INN/ATT REET 24								
	6. Tians	portey I Company Na D TRANSPOR	A)O				<u>L</u>			U.S. EPAIDN		1 5 3	9 7 9	2 4					
	7. Trans	porter 2 Company Na	me	,						U.S. EPA ID N			<u> </u>						
	8. Desig	nated Facility Name :	and Site Addre	**WAYNE DISP 49350 N I-84 S	OSAL INC SERVICE DRIVE			, .		U.S. EPAIDN	mber								
	Facility	Phone:	92-5468	BELLEVILLE,	MI 48111					TWID	0.4	8 J 6	3 G	a 2					
		and Packing Group (i	(any))		Hazard Class, ID Hombo	r,	F	10. Conteir No.	16га Тура	11. Total Quantity	12. Unit WLVol.	13.3	Naste Code	1					
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DESIGNATED FACILITY	Facility 18c, S	rs Phone: gnature of Alfernate Fr	acility (or Gen	orator)				······································	alikari ar komunelikari (V		· · · · · · · · · · · · · · · · · · ·	146	potin Da	y Yasar					
Ē	19. He	zardous Wasie Fleore	Management	Method Codes (i.e., cod	iec for hazandous waste t	restment disco	sal, and rec	ycžing systema)				<u>_</u>							
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			e or Operator	Certification of receipt o	í þ <u>azordous materiala co</u>			ot me netod in the	vn:18a			************							
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EP	A Form	8700-22 (Rev. 3-05) Previous e	utitions are obsolete.					. '	DESIGNAT	ED FA	CHUTY TO	O GENI	PATOR					

Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228231 EQ Account #: 6041

Manifest / BOL: 000607701VES

Transporter: TRIAD

Date: 02/27/2013 Time In: 10:02 AM Time Out: 11:17 AM

		Table Odt. 17.07 Ala
Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	14.150 TONS
•	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 73,160 Tare: 44,860 Net: 28,300	
2	Wayne Disposal Host Community Agreement Royalty Fee	14.150 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 73,160 Tare: 44,860 Net: 28,300	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as and specified on Manifest #	راد الله الله الله الله الله الله الله ال
Fel. 27, 2013 in accordance with all	local, state and federal regulations by:
Wayne Dispo	sal, Inc.
(EPA I.D. # MID04	•
49350 N. I-94 Service Drive, Belle Telephone: 1-800-KWALIT Fax: 1-800-KWALFAX	TY (592-5489)
Under civil and criminal penalties of law for the making or submission of 1001 and 15 U.S.C. 2615), I certify that the information contained in or ac to the identified section(s) of this document for which I cannot personally having supervisory responsibility for the persons who are acting under my is true accurate and complete.	companying this document is true, accurate and complete. A y verify truth and accuracy. I certify as the company official
Authorized Signature:	
A PULLUARION DEFINENCE.	



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Pleas	e print or type. (Form desig	ned for use on	elile (12-pitch) typ	evilor.)							Approved.	OMB No.	2050-0039
1	UNIFORM HAZARDOUS	1. Generator 10	Humber		2, Page 1 of	3.Eners	ancy Respons	e Phone	4. Marifest To			e 11	ee l
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11.	RIAD TRANSPOR				-				ОКВ		158	3 ?	1]
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 	8. Designated Facility Name at	nd Site Address	AYNE DISPO	DSALING ERVICE DRIVE					U.S, EPAIÓN	unber			
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11	20. Designated Facility Own	er or Operation Co	risication of monipte	of hazardous majorials or	evered by the m		oplas noted in	Hom 18a)	
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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228287 EQ Account #: 6041

Manifest / BOL: 000607706VES

Transporter: TRIAD
Date: 02/28/2013

Time In: 2:20 PM Time Out: 4:04 PM

		7.11.0 Out 4.04 1.W
Line	Description	. Qty. Unit
	Generator	
1 - 1	B139019WDI - Soil Contaminated with PCBs	12.510 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 67,240 Tare: 42,220 Net: 25,020	
2	Wayne Disposal Host Community Agreement Royalty Fee	12.510 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	·
	Gross: 67,240 Tare: 42,220 Net: 25,020	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wast	es identified as	CCB Sold	
and specified on Manifest #	000607706 VES	, Line Item	_ has been landfilled on
Feb 28 2015	_ in accordance with al	l local, state and fed	eral regulations by:
Was	ne Dispo	ocal Inc	
vvas		· ·	•
	(EPA I.D. # MID04	18090633)	
	N. I-94 Service Drive, Belle		
•	Telephone: 1-800-KWALI		
	Fax: 1-800-KWALFAX	(592-5329)	·
Under civil and criminal penalties of law for the 1001 and 15 U.S.C. 2615), I certify that the infection to the identified section(s) of this document for having supervisory responsibility for the persons true accurate and complete.	formation contained in or a or which I cannot personal	ccompanying this docum ly verify truth and accu	nent is true, accurate and complete. As racy. I certify as the company official
	m u		
Authorized Signature:			



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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449 Receipt ID: 1228369 EQ Account #: 6041

Manifest / BOL: 000607722VES

Transporter: TRIAD

Date: 03/01/2013

Time In: 4:02 PM Time Out: 5:15 PM

		Odt, 3.131 W
Lîne	Description	Qty. Unit
	Generator	•
1 - 1	B139019WDI - Soil Contaminated with PCBs	9.950 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 62,220 Tare: 42,320 Net: 19,900	
2	Wayne Disposal Host Community Agreement Royalty Fee	9.950 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 62,220 Tare: 42,320 Net: 19,900	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as
and specified on Manifest # 000607722 VES , Line Item has been landfilled on
Wayne Disposal, Inc.
(EPA I.D. # MID048090633)
49350 N. I-94 Service Drive, Believille, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.
Authorized Signature:



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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

VEOLIA ES TECHNICAL SOLUTIONS LLC 4301 INFIRMARY ROAD P O BOX 453 WEST CARROLLTON, OH 45449

Receipt ID: 1228382 EQ Account #: 6041

Manifest / BOL: 000607723VES

Transporter: TRIAD
Date: 03/04/2013
Time In: 2:37 PM

Time In: 2:37 PM Time Out: 3:49 PM

		Time Out: 5.49 PM
Line	Description Generator	Qty. Unit
1 - 1	B139019WDI - Soil Contaminated with PCBs	12.720 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	
	Gross: 68,460 Tare: 43,020 Net: 25,440	
2	Wayne Disposal Host Community Agreement Royalty Fee	12.720 TONS
	OHD041064767 UNIVERSITY OF CINCINNATI	•
	Gross: 68,460 Tare: 43,020 Net: 25,440	

CERTIFICATE

FÖR MANIFESTED PCB WASTE

This certificate is to verify the wast and specified on Manifest #	000607723 VES	, Line Item	has been landfilled on
	_ in accordance with all		- Car
Was	ne Dispo	sal Inc	a
- vvaj	(EPA I.D. # MID04	•	∕
	N. I-94 Service Drive, Belle Telephone: 1-800-KWALIT Fax: 1-800-KWALFAX	Y (592-5489)	
Under civil and criminal penalties of law for the 1001 and 15 U.S.C. 2615), I certify that the into the identified section(s) of this document for the supervisory responsibility for the persons true accurate and complete.	formation contained in or ac or which I cannot personal!	companying this docury verify truth and accurate	nent is true, accurate and complete. A tracy. I certify as the company officia
Authorized Signature:	Mh wh	~	



ATTACHMENT B



19-Feb-2013

Mike Luessen Cardno ATC 11121 Canal Road Cincinnati, OH 45241-1861

Tel: 513-771-2112 Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: 1302315

Dear Mike,

ALS Environmental received 8 samples on 18-Feb-2013 04:23 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson Project Manager

> ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302315

Work Order Sample Summary

T 1 G Y						***************************************
Lab Samp IL	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
1302315-01	C-10-FL	Soil		2/18/2013 09:45	2/18/2013 16:23	
1302315-02	C-10-NW	Soil		2/18/2013 10:00	2/18/2013 16:23	
1302315-03	C-10-WW	Soil		2/18/2013 10:15	2/18/2013 16:23	
1302315-04	C-7-FL	Soil		2/18/2013 11:25	2/18/2013 16:23	
1302315-05	C-7-WW	Soil		2/18/2013 11:45	2/18/2013 16:23	
1302315-06	C-5-FL	Soil		2/18/2013 14:30	2/18/2013 16:23	
1302315-07	C-5-WW	Soil		2/18/2013 15:00	2/18/2013 16:23	
1302315-08	Trip Blank	Water		2/18/2013	2/18/2013 16:23	

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302315

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-10-FL

Collection Date: 2/18/2013 09:45 AM

Work Order: 1302315

Lab ID: 1302315-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.038	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.28		0.019	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	87.0		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	80.8		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	13		0.010	% of sample	1	2/19/2013

Note:

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Collection Date: 2/18/2013 10:00 AM

C-10-NW

Work Order: 1302315

Lab ID: 1302315-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.040	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ПИ		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	1.0		0.020	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	87.8		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	81.2		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	18		0.010	% of sample	1 .	2/19/2013

Note:

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-10-WW

Work Order: 1302315

Lab ID: 1302315-03

Matrix: SOIL

Collection Date: 2/18/2013 10:15 AM

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.021	mg/Kg-dry	1	2/19/2013
Areclor 1221	ND		0.041	mg/Kg-đry	1	2/19/2013
Aroclor 1232	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1242	NĐ		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.021	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.31		0.021	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	83.2		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	78.4		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	19		0.010	% of sample	1	2/19/2013

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-7-FL

Collection Date: 2/18/2013 11:25 AM

Work Order: 1302315

Lab ID: 1302315-04

. 1302313

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.038	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.019	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.13		0.019	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	79.8		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	12		0.010	% of sample	1	2/19/2013

Note:

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-7-WW

Collection Date: 2/18/2013 11:45 AM

Work Order: 1302315

Lab ID: 1302315-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.044	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.022	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.18		0.022	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	80.6		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	73.4		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	24		0.010	% of sample	1	2/19/2013

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-5-FL

Collection Date: 2/18/2013 02:30 PM

Work Order: 1302315

Lab ID: 1302315-06

Matrix: SOIL

Report Dilution Analyses Result Qual Limit Units Date Analyzed Factor **PCBS** SW8082 Prep Date: 2/19/2013 Analyst: SAD

			_	h	randa jou ond
Aroclor 1016	ND	0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND	0.040	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND	0.020	mg/Kg-dry	1	2/19/2013
Arocler 1242	ND	0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND	0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	NĐ	0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.093	0.020	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	77.4	22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	75.0	34-145	%REC	1	2/1 9 /2013
MOISTURE		SM254	0B	Prep Date: 2/19/2013	Analyst; KMW
Moîsture	17	0.010	% of sample	1	2/19/2013

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-5-WW

Collection Date: 2/18/2013 03:00 PM

Work Order: 1302315

Lab ID: 1302315-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1221	ND		0.041	mg/Kg-dry	1	2/19/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1254	ND		0.020	mg/Kg-dry	1	2/19/2013
Aroclor 1260	0.31		0.020	mg/Kg-dry	1	2/19/2013
Surr: Decachlorobiphenyl	79.0		22-156	%REC	1	2/19/2013
Surr: Tetrachloro-m-xylene	84.0		34-145	%REC	1	2/19/2013
MOISTURE			SM254	0B	Prep Date: 2/19/2013	Analyst: KMW
Moisture	18		0.010	% of sample	1	2/19/2013

Note:

Date: 19-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Trip Blank

Collection Date: 2/18/2013

Work Order: 1302315

Lab ID: 1302315-08

Matrix: WATER

Analyses	Result	Qual	Report Qual Limit Ui		Dilution Factor	Date Analyzed	
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD	
Aroclor 1016	ND		0.51	μg/L	1	2/19/2013	
Aroclor 1221	ND		0.51	μg/L	1	2/19/2013	
Aroclor 1232	ND		0.51	μg/L	1	2/19/2013	
Aroclor 1242	ND		0.51	μg/L	1	2/19/2013	
Aroclor 1248	ND		0.51	μg/L	1	2/19/2013	
Aroclor 1254	ND		0.51	μg/L	1	2/19/2013	
Arocior 1260	ND		0.51	μg/L.	1	2/19/2013	
Surr: Decachlorobiphenyl	83.6		37-108	%REC	1	2/19/2013	
Surr: Tetrachloro-m-xylene	87.6		9-136	%REC	1	2/19/2013	

Date: 19-Feb-13

Client:

Cardno ATC

Work Order:

1302315

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: 15421 Instrume	ent ID: GC9		ivieti100	: SW808							
MBLK Sample ID: MBLK-15421-15421						Units: mg/Kg		Analysis Date: 2/1		9/2013	
Client ID:	Run ID: GC9_130219A				SeqNo: 567779		Prep Date: 2/19/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10									
Aroclor 1221	ND	0.20									
Aroclor 1232	ND	0.10									
Aroclor 1242	ND	0.10									
Aroclor 1248	ND	0.10									
Aroclor 1254	ND	0.10									
Aroclor 1260	ND	0.10									
Surr: Decachlorobiphenyl	0.0848	0	0.1		0	84.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0838	0	0.1		0	83.8	34-145	0			
.CS Sample ID: LCS-1542	1-15421				U	nits: mg/l	⟨g	Analys	is Date: 21°	19/2013	
Client ID:	Run ID	: GC9_13	30219A	SeqNo: 567780		80	Prep Date: 2/19/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	2.2	0.10	2		0	110	50-133	0			
Surr: Decachlorobiphenyl	0.0962	0	0.1		0	96.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0874	0	0.1		0	87.4	34-145	0			
MS Sample ID: 1302315-0	07Ams				U	Inits: mg/	√g	Analys	is Date: 2/	19/2013	
Client ID: C-5-WW	Run ID	: GC9_13	30219A		Se	qNo: 567 7	788	Prep Date: 2/19	/2013	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Aroclor 1260	0.5459	0.017	0.3329	0.249	93	89.1	31-150	0	_		
Surr: Decachlorobiphenyl	0.01358	0	0.01664		0	81.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.01302	O O	0.01664		0	78.2	34-145	0			
VISD Sample ID; 1302315-	07Amsd	***	·		Ĺ	Inits: mg/	Kg	Analys	is Date: 2/	19/2013	
Client ID: C-5-WW	Run IC): GC9_1:	30219A		Se	qNo: 567	789	Prep Date: 2/19	/2013	DF: 1	
Analyte	Result	₽QL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	14.0			0.04	03		24 450	0.5450			
Surr: Decachlorobiphenyl	0.5533 0.01343	0.017	0.3333 0.01667	0.24		91.2	31-150 22-156	0.5459	1.35	53	
, ,		0			0	80.6					
Surr. Tetrachioro-m-xylene	0.01313	0	0.01667		0	78.8	34-145	0.01302	0.898		
The following samples were analyzed in this batch:			302315-01A 302315-04A			15-02A 15-05A		02315-03A 02315-06A			

Client:

Cardno ATC

Work Order:

1302315

Project:

Morgens Hall; Project No.: 72.41360.0003

Batch ID: 15422	Instrumen	t ID: GC9		Method	i: SW808	2						
MBLK Sa	ample ID: MBLK-1542	22-15422		**************************************		U	nits: μg/L		Analysis	s Date: 2/	19/2013	
Client ID:		Run IC	Run ID: GC9_130219A			SeqNo: 567776			Prep Date: 2/19/2013		DF: 1	
Analyte		Result	PQL.	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	0.50									
Aroclor 1221		ФИ	0.50									
Aroclor 1232		ND	0.50									
Aroclor 1242		ND	0.50									
Aroclor 1248		ND	0.50									
Aroclor 1254		ND	0.50									
Aroclor 1260		ND	0.50									
Surr: Decachio	orobiphenyl	0.327	0	0.5		0	65.4	37-108	8 0			
Surr: Tetrachio	loro-m-xylene	0.394	0	0.5		0	78.8	9-136	0			
LCS Sa	ample ID: LCS-15422	-15422				l	Jnits: µg/L	-	Analysi	s Date: 2	/19/2013	JANES CONTRACTOR
Client ID:		Run II	D: GC9_13		Se	eqNo: 567	777	Prep Date: 2/19/	/2013	DF: 1		
Analyte		Result	PQL.	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260		9.755	0.50	10		0	97.6	61-122	0			
Surr: Decachl	lorobiphenyl	0,359	0	0.5		0	71.8	37-108	0			
Surr: Tetrachle	loro-m-xvlene	0.387	0	0.5		0	77.4	9-136	0			

QC BATCH REPORT

Date: 19-Feb-13

ALS Environmental

Client:

Cardno ATC

1302315

Project:

Morgens Hall; Project No.: 72.41360.0003

WorkOrder:

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
IJ	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
sw	SW-846 Method
Units Reported	Description

% of sample

μg/L

mg/Kg-dry

Sample Receipt Checklist

Client Name:	ATC-CINCINNATI				Date/Time F	leceived:	18-Feb-13	<u>16:23</u>		
Work Order:	1302315				Received by	:	<u>AMG</u>			
Checklist compl	eted by: Jan Wilcox eSignature		19-Feb-13 Date	_	Reviewed by:	Chris Gibs	OTI			eb-13 Pate
Matrices: Carrier name:	Client					•				
Shipping contain	ner/cooler in good condition?		Yes	✓	No 🗆	Not Prese	nt 🗌			
Custody seals i	ntact on shipping container/cooler?		Yes		No 🗌	Not Prese	nt 🔽			
Custody seals in	ntact on sample bottles?		Yes		No 🗌	Not Prese	nt 🔽			
Chain of custod	ly present?		Yes	✓	No 🗆					
Chain of custod	ly signed when relinquished and rec	eived?	Yes	✓	No 🗀					
Chain of custod	ly agrees with sample labels?		Yes	✓	No 🗌					
Samples in prop	per container/bottle?		Yes	V	No 🗌					
Sample contain	ers intact?		Yes	✓	No 🗌					
Sufficient samp	ele volume for indicated test?		Yes	V	No 🗌					
All samples rec	eived within holding time?		Yes	v	No 🗌					
Container/Temp	p Blank temperature in compliance?		Yes	✓	No □		•			
Temperature(s)	/Thermometer(s):		6.0							
Cooler(s)/Kit(s)	:									
Water - VOA vi	als have zero headspace?		Yes	2	No 💹	No VOA vials	submitted	.		
Water - pH acc	eptable upon receipt?		Yes	鱁	No 🕮	N/A				
pH adjusted? pH adjusted by	:		Yes -		No 🖾	N/A				
Login Notes:										
			====							
						·				
Client Contacte	ed:	Date Contacted	l:		Person	Contacted;				
Contacted By:		Regarding:								
Comments:										
CorrectiveAction	on:							Q D r	· Dane :	1 of 1



20-Feb-2013

Mike Luessen Cardno ATC 11121 Canal Road Cincinnati, OH 45241-1861

Tel: 513-771-2112 Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: 1302328

Dear Mike,

ALS Environmental received 11 samples on 19-Feb-2013 01:12 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company



Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302328

Work Order Sample Summary

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
1302328-01	C-3-FL	Soil		2/19/2013 08:20	2/19/2013 13:12
1302328-02	C-4-NW	Soil		2/19/2013 08:45	2/19/2013 13:12
1302328-03	C-4-FL	Soil		2/19/2013 09:30	2/19/2013 13:12
1302328-04	C-8-FL	Soil		2/19/2013 10:00	2/19/2013 13:12
1302328-05	C-1-FL	Soil		2/19/2013 10:45	2/19/2013 13:12
1302328-06	C-2-FL	Soil		2/19/2013 11:30	2/19/2013 13:12
1302328-07	C-1-SW	Soil		2/19/2013 11:50	2/19/2013 13:12
1302328-08	C-2-SW	Soil		2/19/2013 12:00	2/19/2013 13:12
1302328-09	EB	Water		2/19/2013	2/19/2013 13:12
1302328-10	FB	Water		2/19/2013	2/19/2013 13:12
1302328-11	TB	Water		2/19/2013	2/19/2013 13:12

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302328

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Collection Date: 2/19/2013 08:20 AM

C-3-FL

Work Order: 1302328

Lab ID: 1302328-01

Matrix: SOIL

Analyses	Result	Report esult Qual Limit		Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/20/2013	Analyst: SAD
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.45	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.22	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.22	mg/Kg-dry	1 .	2/20/2013
Surr: Decachlorobiphenyl	83.6		22-156	%REC	1	2/20/2013
Surr: Tetrachloro-m-xylene	82.2		34-145	%REC	1	2/20/2013
MOISTURE		•	SM254	0B	Prep Date: 2/20/2013	Analyst: YCL
Moisture	25		0.010	% of sample	1	2/20/2013

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-4-NW

Collection Date: 2/19/2013 08:45 AM

Work Order: 1302328

Lab ID: 1302328-02

Matrix: SOIL

Analyses	Result	Qual	Report Qual Limit Uni		Dilution Factor	Date Analyzed		
PCBS		SW8082				Analyst: SAD		
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/20/2013		
Arocior 1232	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1248	NĐ		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1254	. ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013		
Surr: Decachlorobiphenyl	78.0		22-156	%REC	1	2/20/2013		
Surr: Tetrachloro-m-xylene	77.0		34-145	%REC	1	2/20/2013		
MOISTURE			SM254	0В	Prep Date: 2/20/2013	Analyst: YCL		
Moisture	20		0.010	% of sample	1	2/20/2013		

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hail; Project No.: 72.41360.0003

Work Order: 1302328

C-4-FL

Lab ID: 1302328-03

Sample ID: Collection Date: 2/19/2013 09:30 AM

Matrix: SOIL

Analyses	Result	Repoi Result Qual Limi		Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/20/2013	Analyst: SAD
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	79.6		22-156	%REC	1	2/20/2013
Surr: Tetrachloro-m-xylene	77.0		34-145	%REC	1	2/20/2013
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL
Moisture	21		0.010	% of sample	1	2/20/2013

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-8-FL

Collection Date: 2/19/2013 10:00 AM

Work Order: 1302328

Lab ID: 1302328-04

Matrix: SOIL

Analyses	Result	Report sult Qual Limit U		Units	Dilution Factor	Date Analyzed		
PCBS			SW808	Prep Date: 2/20/2013	Analyst: SAD			
Araclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1221	ND		0,42	mg/Kg-dry	1	2/20/2013		
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013		
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013		
Surr: Decachlorobiphenyl	84.2		22-156	%REC	1	2/20/2013		
Surr: Tetrachloro-m-xylene	80.6		34-145	%REC	1	2/20/2013		
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL		
Moisture	21		0.010	% of sample	1	2/20/2013		

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-1-FL

Collection Date: 2/19/2013 10:45 AM

Work Order: 1302328

Lab ID: 1302328-05

Matrix: SOIL

Analyses	Result	Report Result Qual Limit Units		Units	Dilution Factor	Date Analyzed		
PCBS			SW808	Prep Date: 2/20/2013	Analyst: SAD			
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/20/2013		
Aroclor 1221	ND		0.43	mg/Kg-dry	1	2/20/2013		
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/20/2013		
Aroclor 1242	ND		0.22	mg/Kg-dry	1	2/20/2013		
Aroclor 1248	ND		0.22	mg/Kg-dry	1	2/20/2013		
Aroclor 1254	ND		0.22	mg/Kg-dry	1	2/20/2013		
Aroclor 1260	ND		0.22	mg/Kg-dry	1	2/20/2013		
Surr: Decachlorobiphenyl	88.6		22-156	%REC	1	2/20/2013		
Surr: Tetrachloro-m-xylene	82.4		34-145	%REC	1	2/20/2013		
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL		
Moisture	23		0.010	% of sample	1	2/20/2013		

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302328

Sample ID:

C-2-FL

Lab ID: 1302328-06

Collection Date: 2/19/2013 11:30 AM

Matrix: SOIL

Analyses	Result	Repo Qual Lin		Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/20/2013	Analyst: SAD
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/20/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1254	ND		0.21	mg/Kg-dry	1	2/20/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/20/2013
Surr: Decachlorobiphenyl	85.6		22-156	%REC	1	2/20/2013
Surr: Tetrachloro-m-xylene	78.8		34-145	%REC	1	2/20/2013
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL
Moisture	19		0.010	% of sample	1	2/20/2013

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-1-SW

Collection Date: 2/19/2013 11:50 AM

Work Order: 1302328

Lab ID: 1302328-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed Analyst: SAD	
PCBS			SW808	2	Prep Date: 2/20/2013		
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/20/2013	
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1242	ND		0.20	mg/Kg-dry	1	2/20/2013	
Arcelor 1248	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1254	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/20/2013	
Surr: Decachlorobiphenyl	83.6		22-156	%REC	1	2/20/2013	
Surr: Tetrachloro-m-xylene	78.6		34-145	%REC	1	2/20/2013	
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL	
Moisture	19		0.010	% of sample	1	2/20/2013	

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Sample ID:

Morgens Hall; Project No.: 72.41360.0003

Collection Date: 2/19/2013 12:00 PM

C-2-SW

Work Order: 1302328

Lab ID: 1302328-08

Matrix: SOIL

Analyses	Result	Rep ilt Qual Lin		Units	Dilution Factor	Date Analyzed	
PCBS			SW808	2	Prep Date: 2/20/2013	Analyst: SAD	
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1221	ND		0.40	mg/Kg-dry	1	2/20/2013	
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1242	NĐ		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1248	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1254	ND		0.20	mg/Kg-dry	1	2/20/2013	
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/20/2013	
Surr: Decachlorobiphenyl	80.0		22-156	%REC	1	2/20/2013	
Surr: Tetrachloro-m-xylene	75.0		34-145	%REC	1	2/20/2013	
MOISTURE			SM254	0B	Prep Date: 2/20/2013	Analyst: YCL	
Moisture	17		0.010	% of sample	1	2/20/2013	

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302328

Lab ID: 1302328-09

Sample ID:

Collection Date: 2/19/2013

Matrix: WATER

Analyses	Result Qual		Report Limit	Units	Dilution Factor	Date Analyzed	
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD	
Arcclor 1016	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1221	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1232	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1242	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1248	ΝD		0.51	μg/L	1	2/20/2013	
Aroclor 1254	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1260	ND		0.51	μg/L	1	2/20/2013	
Surr: Decachlorobiphenyl	80.2		37-108	%REC	1	2/20/2013	
Surr: Tefrachioro-m-xylene	73.2		9-136	%REC	1	2/20/2013	

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302328

Sample ID:

 \mathbf{FB}

Lab ID: 1302328-10

Collection Date: 2/19/2013

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD
Arocior 1016	ND		0.51	μg/L	1	2/20/2013
Aroclor 1221	ND		0.51	μg/L	1	2/20/2013
Aroclor 1232	ND		0.51	μg/L	1	2/20/2013
Aroclor 1242	ND		0.51	μg/L	1	2/20/2013
Aroclor 1248	ND		0.51	μg/L	1	2/20/2013
Aroclor 1254	ND		0.51	μg/L	1	2/20/2013
Aroclor 1260	ND		0.51	μg/L	1	2/20/2013
Surr: Decachlorobiphenyl	79.8		37-108	%REC	1	2/20/2013
Surr: Tetrachloro-m-xylene	76.4		9-136	%REC	1	2/20/2013

Date: 20-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302328

Sample ID:

TB

Lab ID: 1302328-11

Collection Date: 2/19/2013

Matrix: WATER

Analyses	Result	Report Lesult Qual Limit		Units	Dilution Factor	Date Analyzed	
PCBS			SW808	2	Prep Date: 2/19/2013	Analyst: SAD	
Aroclor 1016	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1221	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1232	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1242	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1248	ND		0.51	μg/L	1	2/20/2013	
Aroclor 1254	ND		0.51	μg/L	.1	2/20/2013	
Aroclor 1260	ND		0.51	μg/L	1	2/20/2013	
Surr: Decachlorobiphenyl	76,4		37-108	%REC	1	2/20/2013	
Surr: Tetrachloro-m-xylene	79.2		9-136	%REC	1	2/20/2013	

Date: 20-Feb-13

Client:

Cardno ATC

Work Order:

1302328

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: 15422	Instrumen	t ID: GC9	GC9 Method:									
MBLK Sa	ample ID: MBLK-1542	2-15422				Units: µg/ L			Analy	sis Date: 2	/19/2013	
Client ID:		Run II): GC9_13	0219A		Seq	No: 5677	76	Prep Date: 2/1	9/2013	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Arocior 1016		ND	0.50					·				
Aroclor 1221		ND	0.50									
Aroclor 1232		ND	0.50									
Aroclor 1242		ND	0.50									
Aroclor 1248		ND	0.50									
Aroclor 1254		ND	0.50									
Aroclor 1260		ND	0.50									
Surr. Decachlo	orobiphenyl	0.327	0	0.5		0	65.4	37-108	0			
Surr: Tetrachk	oro-m-xylene	0.394	0	0.5		0	78.8	9-136	()		
L CS Sa	ample (D: LCS-15422 -	15422			//	Un	ιits: μg/L		Analy	sis Date: 2	/19/2013	
Client ID:		Run IE): GC9_13	80219A		Seq	No: 5677	777	Prep Date: 2/1	9/2013	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Arocior 1260		9.755	0.50	10		0	97.6	61-122	()		
	orobiphenyl	0.359	0	0.5		0	71.8	37-108	()		
Surr: Decachie												

Client:

Cardno ATC

Work Order:

1302328

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: 15437 Instr	rument ID: GC9		Method	: SW808	2				·		
MBLK Sample ID: MBLK	-15437-15437	***		,	Units: mg/Kg			Analys	0/2013		
Client ID:	Run ID	GC9_13	80220A		SeqNo: 5682		41	Prep Date: 2/20/2013		DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Aroclor 1016	ND	1.0									
Aroclor 1221	ND	2.0									
Aroclor 1232	ND	1.0									
Aroclor 1242	ND	1.0									
Aroclor 1248	ND	1.0									
Aroclor 1254	ND	1.0									
Aroclor 1260	ND	1.0									
Surr: Decachlorobiphenyl	0.0848	0	0.1		0	84.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0826	0	0.1		0	82.6	34-145	0			
LCS Sample ID: LCS-1	15437-15437				U	nits: mg/ l	∢ g	Analys	is Date: 2/2	20/2013	
Client ID:	Run ID	: GC9_1	30220A		SeqNo: 568 2		242	Prep Date: 2/20	/2013	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Aroclor 1260	1.896	1.0	2		0	94.8	50-133	0			
Surr: Decachlorobiphenyl	0.0838	0	0.1		0	83.8	22-156	0			
Surr: Tetrachloro-m-xylene	0.0774	0	0.1	·	0	77.4	34-145	0			
MS Sample ID: 13023	28-02AMS				U	nits: mg/l	Kg	Anaiys	is Date: 2/2	20/2013	
Client ID: C-4-NW	Run iD	: GC9_1:	30220A	SeqNo: 568245			245	Prep Date: 2/20/2013			
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
	0.0000				_		04.400				
Aroclor 1260 Surr: Decachlorobiphenyl	0.3032 <i>0.01344</i>	0.17	0.3334 0.01667		0	90.9	31-150	0			
Surr: Tetrachloro-m-xylene	0.0124	0	0.01667		0	80.6 74.4	22-156 34-145	0		·	
	222 2011122										
MSD Sample ID: 13023 Client ID: C-4-NW		. 000 4	20200 6			nits: mg/l	_	-	is Date: 2/2		
Cilentio. C-4-NV	Runt	: GC9_1	30220A			qNo: 5682		Prep Date: 2/20	1/2013	DF: 1	
				SPK Ref		a. =	Control	RPD Ref		RPD Limit	
	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qua
Analyte	TCGUR				0	91.9	31-150	0.3032	0.938	53	
	0.306	0.17	0.3329		U	07.0					
Aroclor 1260 Surr. Decachlorobiphenyl		0.17 0	0.3329 0.01664		0	79.2	22-156	0.01344	1.92		
Aroclor 1260	0.306							0.01344 0.0124			
Surr. Decachlorobiphenyl	0.306 0.01318 0.01318	0	0.01664	13	0	79.2	22-156 34-145				
Aroclor 1260 Surr: Decachlorobiphenyl Surr: Tetrachloro-m-xylene	0.306 0.01318 0.01318	0 0 13	0.01664 0.01664		0 0 30232	79.2 79.2	22-156 34-145 13	0.0124		- markini	•

Date: 20-Feb-13

ALS Environmental

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

WorkOrder:

1302328

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R S	RPD above laboratory control limit Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
sw	SW-846 Method
Units Reported	Description

% of sample

μg/L

mg/Kg-dry

Sample Receipt Checklist

Client Name: ATC-CINCINNATI				Date/ I Ime F	(eceived;	19-Feb-13	<u>3 13:12</u>	
Work Order: <u>1302328</u>				Received by		JNW		
Checklist completed by: Jan Wilcox eSignature		19-Feb-13 Date	-	Reviewed by:	Chris Gibs	son		20-Feb-13 Date
Matrices: Carrier name: Client								•
Shipping container/cooler in good condition?		Yes	V	No 🗆	Not Prese	ent 🗌		
Custody seals intact on shipping container/cooler?	?	Yes		No 🗌	Not Prese	ent 🔽		
Custody seals intact on sample bottles?		Yes		№ 🗌	Not Prese	ent 🗹		
Chain of custody present?		Yes	✓	No 🗌				
Chain of custody signed when relinquished and re	eceived?	Yes	✓	No 🗌				
Chain of custody agrees with sample labels?		Yes	¥	No 🗌				
Samples in proper container/bottle?		Yes	✓	No 🗌				
Sample containers intact?		Yes	V	No 🗀			•	
Sufficient sample volume for indicated test?		Yes	V	No 🗌				
All samples received within holding time?		Yes	V	No 🗌				
Container/Temp Blank temperature in compliance	?	Yes	✓	No 🗌				
Temperature(s)/Thermometer(s):		<u>2.0</u>						
Cooler(s)/Kit(s):]	
Water - VOA vials have zero headspace?		Yes		No 🗵	No VOA vials	submitted		
Water - pH acceptable upon receipt?		Yes		No 🗵	N/A	A.		
pH adjusted? pH adjusted by:		Yes -	鎏	No 🖺	N/A] ·	
Login Notes:								
					-	-		,
			==					
Client Contacted:	Date Contacted:			Person	Contacted:			
Contacted By:	Regarding:							
Comments:						-]	
]	
CorrectiveAction:]	
							SRC	Page 1 of 1



22-Feb-2013

Mike Luessen Cardno ATC 11121 Canal Road Cincinnati, OH 45241-1861

Tel: 513-771-2112 Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: 1302376

Dear Mike.

ALS Environmental received 4 samples on 21-Feb-2013 10:29 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Chris Gibson

Chris Gibson Project Manager

ADDRESS 4388 Glendele Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 22-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302376

Work Order Sample Summary

						•
Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	<u>Hold</u>
1302376-01	C-18-FL	Soil		2/21/2013 08:20	2/21/2013 10:29	
1302376-02	C-18-NW	Soil		2/21/2013 08:30	2/21/2013 10:29	
1302376-03	C-18-WW	Soil		2/21/2013 09:00	2/21/2013 10:29	
1302376-04	TB	Water		2/21/2013	2/21/2013 10:29	

Date: 22-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302376

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Client Sample ID: C-18-FL

Date: 22-Feb-13

Client: Project:

Cardno ATC

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302376

Lab ID:

1302376-01A

Collection Date: 2/21/2013 8:20:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	32	Prep Date: 2/21/201	3 Analyst: SAD
Aroclor 1016	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.41	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.20	mg/Kg-dry	1	2/21/2013
Arocior 1248	ND		0.20	rng/Kg-dry	1	2/21/2013
Aroclor 1254	0.37		0.20	mg/Kg-dry	1	2/21/2013
Aroclor 1260	ND		0.20	mg/Kg-dry	1	2/21/2013
Surr: Decachlorobiphenyl	75.6		22-156	%REC	1	2/21/2013
Surr: Tetrachloro-m-xylene	71.2		34-145	%REC	1	2/21/2013
MOISTURE			SM254	10B	Prep Date: 2/21/201	3 Analyst: KMW
Moisture	18		0.010	% of sample	1	2/19/2013

Lab ID:

1302376-02A

Client Sample ID: C-18-NW

Collection Date: 2/21/2013 8:30:00 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW80	32	Prep Date: 2/21/2013	3 Analyst: SAD
Aroclor 1016	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.42	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1248	ND		0.21	mg/Kg-dry	1	2/21/2013
Arocior 1254	0.25		0.21	mg/Kg-dry	1	2/21/2013
Aroclor 1260	ND		0.21	mg/Kg-dry	1	2/21/2013
Surr: Decachlorobiphenyl	73.6		22-156	%REC	1	2/21/2013
Surr: Tetrachloro-m-xylene	69.2		34-145	%REC	1	2/21/2013
MOISTURE			SM254	40B	Prep Date: 2/21/2013	3 Analyst: KMW
Moisture	21		0.010	% of sample	-	2/19/2013

Date: 22-Feb-13

Client: Project: Cardno ATC

Morgens Hall; Project No.: 72.41360.0003

Work Order: 1302376

Lab ID:

1302376-03A

Collection Date: 2/21/2013 9:00:00 AM

Client Sample ID: C-18-WW

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW80	82	Prep Date: 2/21/201	3 Analyst: SAD
Aroclor 1016	ND		0.22	mg/Kg-dry	1	2/21/2013
Aroclor 1221	ND		0.44	mg/Kg-dry	1	2/21/2013
Aroclor 1232	ND		0.22	mg/Kg-dry	1	2/21/2013
Aroclor 1242	ND		0.22	mg/Kg-dry	1 .	2/21/2013
Aroclor 1248	ND		0.44	mg/Kg-dry	20	2/21/2013
Aroclor 1254	1.3		0.44	mg/Kg-dry	20	2/21/2013
Aroclor 1260	ND		0.44	mg/Kg-dry	20	2/21/2013
Surr: Decachlorobiphenyl	79.8		22-156	%REC	1	2/21/2013
Surr: Tetrachloro-m-xylene	72.2		34-145	%REC	1	2/21/2013
MOISTURE			SM25	40B	Prep Date: 2/21/201	3 Analyst: KMW
Moisture	24		0.010	% of sample		2/19/2013

Lab ID:

Client Sample ID: TB

1302376-04A

Collection Date: 2/21/2013

Matrix: WATER

Analyses			Report Limit	Units	Dilution Factor	Date Analyzed		
PCBS			SW80	82	Prep Date: 2/21/2013	B Analyst: SAD		
Aroclor 1016	ND		0.51	μg/L	1	2/21/2013		
Aroclor 1221	ND		0.51	μg/L	1	2/21/2013		
Aroclor 1232	ND		0.51	µg/Լ.	1	2/21/2013		
Aroclor 1242	ND		0.51	µg/L	1	2/21/2013		
Aroclor 1248	ND		0.51	µg/L	. 1	2/21/2013		
Aroclor 1254	ND		0.51	μg/L	+ 1 *	2/21/2013		
Aroclor 1260	ND		0.51	μg/L	1	2/21/2013		
Surr: Decachlorobiphenyl	68.0		37-108	%REC	1	2/21/2013		
Surr: Tetrachloro-m-xylene	68.2		9-136	%REC	1	2/21/2013		

Date: 22-Feb-13

Client:

Cardno ATC

Work Order:

1302376

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

MBLK Sample ID: MBLK-1	5465-15465				ι	Jnits: mg/i	Kg	Analys	is Date: 2	/21/2013	
Client ID:	Run 10	D: GC9_13	30221A		Se	qNo: 569 ′	172	Prep Date: 2/21	1/2013	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1,0									
Aroclor 1221	ND	2.0							·		
Aroclor 1232	ND	1.0									
Aroclor 1242	ND	1.0							·		
Aroclor 1248	ND	1.0									
Aroclor 1254	ND	1.0								 -	
Aroclor 1260	ND	1.0									
Surr: Decachlorobiphenyl	0.0772	0	0.1		0	77.2	22-156	0			
Surr: Tetrachloro-m-xylene	0.0722	0	0.1		0	72.2	34-145	0			
LCS Sample ID: LCS-154	65-15465				1	Jnits: mg/	Ka	Analys	sis Date: 2	/21/2013	
Client ID:		D: GC9_10	30221A	SeqNo: 569173				Prep Date: 2/2:	DF: 1		
	1 (31)				-	,q110. 000			172013		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	1.871	1.0	2		0	93.6	50-133	. 0			
Surr: Decachlorobiphenyl	0.0794	0	0.1		0	79.4	22-156	0			
Surr: Tetrachloro-m-xylene	- 0.0718	0	0.1		0	71.8	34-145	0			
MS Sample ID: 1302376	-01AMS				Ę	Jnits: mg/	Kg	Analys	sis Date; 2	/21/2013	-Pakinan
Client ID: C-18-FL	Run II	D: GC9_1 :	30221A		Se	qNo: 569	175	Prep Date: 2/21/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	0.3806	0.17	0.3339		0	114	31-150	0			
Surr: Decachiorobiphenyl	0.01229	0.17	0.01669		0	73.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.01135	0	0.01669		0	68	34-145	, , 0			-
MSD Sample ID: 1302376	O.A.M.S.D.					Inite: mal	V ~	Λ	i- D-t 0	10410040	
Client ID: C-18-FL		D: GC9_1 :	20224 8			Jnits: mg/	_		sis Date: 2		
Client ID. C-16-PL	Ruii ji	J. GC9_1.	30221A		SeqNo			Prep Date: 2/2	1/2013	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	0.4902	0.17	0.3334		0	147	31-150	0.3806	25,2	53	
Surr: Decachlorobiphenyl	0.01307	0	0.01667		0	78.4	22-156	0.01229	6.18	3	
Surr: Tetrachloro-m-xylene	0.01267	0	0.01667		0	76	34-145	0.01135	11	<u> </u>	
The following samples were analy		13									

Client:

Cardno ATC

Work Order:

1302376

Project:

Morgens Hall; Project No.: 72.41360.0003

Batch ID: 15466 Instrument ID: GC9			Method: SW8082									
MBLK Sampi	le ID: MBLK-15466-	15466				U	nits: µg/L		Analy	rsis Date: 2	21/2013	
Client ID:		Run ID	: GC9_13	0221A		Sec	ιΝο: 5691	179	Prep Date: 2/2	1/2013	DF: 1	
Analyte	,	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	0.50									
Aroclor 1221		ND	0.50									
Aroclor 1232		ND	0.50									
Aroclor 1242		ND	0.50									
Aroclor 1248		ND	0.50									
Aroclor 1254		ND	0.50									
Aroclor 1260		ND	0.50									
Surr: Decachlorob	piphenyl	0.328	0	0.5		0	65.6	37-108		0		
Surr: Tetrachloro-	m-xylene	0.3	0	0.5		0	60	9-136	1	0		
LCS Samp	le ID: LCS-15466-1	5466				U	nits: µg/L	-	Analy	ysis Date: 2	/21/2013	
Client ID:		Run II); GC9_13	30221A		Sec	qNo: 569 1	180	Prep Date: 2/2	21/2013	DF; 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260		9.451	0.50	10		0	94.5	61-122		0		
Surr: Decachlorot	piphenyl	0.365	0	0.5		0	73	37-108		0		
Surr: Tetrachloro-	m-xvlene	0.31	0	0.5		0	62	9-136		0		

QC BATCH REPORT

Date: 22-Feb-13

ALS Environmental

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

WorkOrder: 1302376

QUALIFIERS, ACRONYMS, UNITS

2000000	
Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
sw	SW-846 Method
Units Reported	Description

% of sample

 $\mu g/L$

mg/Kg-dry

Sample Receipt Checklist

Client Name:	ATC-CI	<u>NCINNATI</u>				Date/Time F	Received:	21-Feb-1	3 10:29		
Work Order:	130237	<u>6</u>		-		Received by	r.	<u>JNW</u>			
Checklist compl	eted by:	J an Wilcox esignature		21-Feb-13 Date		Reviewed by:	Chris Gib	SON		2	22-Feb-13 Date
Matrices: Carrier name:	<u>Client</u>										
Shipping contair	ner/coole	r in good condition?		Yes	✓	No 🗌	Not Prese	ent 🗌			
Custody seals in	ntact on s	hipping container/cooler?		Yes		No 🗌	Not Prese	ent 🗹			
Custody seals in	ntact on s	sample bottles?		Yes		No 🗌	Not Prese	ent 🔽			
Chain of custod	y present	1?		Yes	✓	No 🗀					
Chain of custody	y signed	when relinquished and re	ceived?	Yes	V	No 🗌					
Chain of custody	y agrees	with sample labels?		Yes	V	No 🗌					
Samples in prop	er contai	iner/bottle?		Yes	✓	No 🗌					
Sample containe	ers intact	?		Yes	✓	No 🗌					
Sufficient sampl	le volume	for indicated test?		Yes	V	No 🗌					
All samples rece	eived with	nin holding time?		Yes	✓	No 🗌					
Container/Temp	Blank te	emperature in compliance?	٠,	Yes		No 🗌					
Temperature(s)	/Thermor	neter(s):		2.0					1		
Cooler(s)/Kit(s):]		
Water - VOA via	als have :	zero headspace?		Yes	2	No 🗉	No VOA vials	submitted			
Water - pH acce	eptable u	pon receipt?		Yes		No 🖺	N/A				
pH adjusted? pH adjusted by:				Yes	匫	No 🗵	N/A				
Login Notes:											
						• •				-	
Client Contacted	d:		Date Contacted	:		Person	Contacted:				
Contacted By:			Regarding:								
			•								
Comments:											
CorrectiveAction	n:]		
									S	RC Pac	ie 1 of 1



27-Feb-2013

Mike Luessen Cardno ATC 11121 Canal Road Cincinnati, OH 45241-1861

Tel: 513-771-2112 Fax: 513-782-6908

Re: Morgens Hall; Project No.: 72.41360.0003 Work Order: 1302456

Dear Mike,

ALS Environmental received 4 samples on 26-Feb-2013 11:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Electronically approved by: Rob Nieman

Chris Gibson Project Manager

> ADDRESS 4388 Glendale Millford Rd. Clincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Laboratory Group. A Campbell Brothers Limited Company

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302456

Work Order Sample Summary

Lab Samp II	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
1302456-01	C-17-FL	Soil		2/26/2013 08:30	2/26/2013 11:25	
1302456-02	C-19-FL	Soil		2/26/2013 09:00	2/26/2013 11:25	
1302456-03	C-19-NW	Soil		2/26/2013 09:30	2/26/2013 11:25	
1302456-04	Trip Blank	Water		2/26/2013	2/26/2013 11:25	

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Work Order:

1302456

Case Narrative

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Update III, June 13, 1997.

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

C-17-FL

Collection Date: 2/26/2013 08:30 AM

Work Order: 1302456

Lab ID: 1302456-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW808	2	Prep Date: 2/26/2013	Analyst: SAD
Aroclor 1016	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1221	ND		0.040	mg/Kg-dry	1	2/26/2013
Aroclor 1232	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1242	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1248	ND		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1254	0.11		0.020	mg/Kg-dry	1	2/26/2013
Aroclor 1260	ND		0.020	mg/Kg-dry	1	2/26/2013
Surr: Decachlorobiphenyl	74.4		22-156	%REC	1	2/26/2013
Surr: Tetrachloro-m-xylene	68.8		34-145	%REC	1 -	2/26/2013
MOISTURE			SM254	0B	Prep Date: 2/26/2013	Analyst: YCL
Moisture	17		0.010	% of sample	1	2/26/2013

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Collection Date: 2/26/2013 09:00 AM

C-19-FL

Work Order: 1302456

Lab ID: 1302456-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
PCBS		SW8082			Prep Date: 2/26/2013	Analyst: SAD	
Aroclor 1016	ND		0.021	mg/Kg-dry	1	2/26/2013	
Aroclor 1221	ND		0.043	mg/Kg-dry	1	2/26/2013	
Arocfor 1232	ND		0.021	mg/Kg-dry	1	2/26/2013	
Aroclor 1242	ND		0.021	mg/Kg-dry	1	2/26/2013	
Aroclor 1248	ND		0.021	mg/Kg-dry	1	2/26/2013	
Aroclor 1254	0.41		0.021	mg/Kg-dry	1	2/26/2013	
Aroclor 1260	ND		0.021	mg/Kg-dry	1	2/26/2013	
Surr: Decachlorobiphenyl	73.2		22-156	%REC	1	2/26/2013	
Surr: Tetrachloro-m-xylene	71.6		34-145	%REC	1	2/26/2013	
MOISTURE			SM254	0B	Prep Date: 2/26/2013	Analyst: YCL	
Moisture	22		0.010	% of sample	1	2/26/2013	

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Collection Date: 2/26/2013 09:30 AM

C-19-NW

Work Order: 1302456

Lab ID: 1302456-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		SW8082		2	Prep Date: 2/26/2013	Analyst: SAD
Aroclor 1016	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1221	ND		0.045	mg/Kg-đry	1	2/26/2013
Aroclor 1232	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1242	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1248	ND		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1254	0.26		0.022	mg/Kg-dry	1	2/26/2013
Aroclor 1260	ND		0.022	mg/Kg-dry	1	2/26/2013
Surr: Decachlorobiphenyl	79.4		22-156	%REC	1	2/26/2013
Surr: Tetrachloro-m-xylene	103		34-145	%REC	1	2/26/2013
MOISTURE			SM254	0B	Prep Date: 2/26/2013	Analyst: YCL
Moisture	. 25		0.010	% of sample	1.	2/26/2013

Date: 27-Feb-13

Client:

Cardno ATC

Project:

Morgens Hall; Project No.: 72.41360.0003

Sample ID:

Trip Blank

Collection Date: 2/26/2013

Work Order: 1302456

Lab ID: 1302456-04

Matrix: WATER

Analyses	es Result Qual		Report al Limit Units		Dilution Factor	Date Analyzed	
PCBS			SW808	2	Prep Date: 2/26/2013	Analyst: SAD	
Aroclor 1016	ND		0.53	μg/L	1	2/26/2013	
Aroclor 1221	ND		0.53	μg/L	1	2/26/2013	
Aroclor 1232	ND		0.53	μg/L	1	2/26/2013	
Aroclor 1242	ND		0.53	μg/L	1	2/26/2013	
Aroclor 1248	ND -		0.53	μg/L	1	2/26/2013	
Aroclor 1254	ND		0.53	μg/L	· 1	2/26/2013	
Aroclor 1260	ND		0.53	μg/L	1	2/26/2013	
Surr: Decachlorobiphenyl	67.6		37-108	%REC	1	2/26/2013	
Surr: Tetrachloro-m-xylene	72.2		9-136	%REC	1	2/26/2013	

Date: 27-Feb-13

Client:

Cardno ATC

Work Order:

1302456

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT	ľ
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Batch ID: 15527 In	strument ID; GC9		Method	: SW808	2						
MBLK Sample ID: MB	LK-15527-15527				U	nits: mg/l	⟨ g	Analysis Date: 2/26/2013			
Client ID;	Run ID	: GC9_13	0226A		Se	qNo: 5707	50	Prep Date: 2/26/20		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	ND	0.40									
Aroclor 1016 Aroclor 1221	ND ND	0.10 0.20									
Aroclor 1232	ND ND	0.10									
Aroclor 1242	ND	0.10									
Aroclor 1248	ND	0.10									
Aroclor 1254	ND	0.10									
Aroclor 1260	ND	0.10									
Surr: Decachlorobiphenyl	0.079	0	0.1		0	79	22-156	0			
Surr: Tetrachloro-m-xylene	0.077	0	0.1		0	77	34-145	0			
LCS Sample ID: LCS				U	/nits: mg/l	√g	Analysis Date: 2/26/2013				
Client ID:	Run ID	: GC9_13	0226A		Se	qNo: 5707	751	Prep Date: 2/26/2	013	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	24.4	%RPD	Limit	Qua
Aroclor 1260	1.916	0.10	2		0	95.8	50-133	0			
Surr: Decachlorobiphenyl	0.08	0	0.1		0 80 22-156 0						
Surr: Tetrachloro-m-xylene	0.076	0	0.1		0	76	34-145	0			
MS Sample ID: 130	2371-09AMS				L	Jnits: mg/l	Kg	Aлalysis	Date: 2/2	26/2013	
Client ID:	Run ID	: GC9_13	0226A		Se	gNo: 570 7	'61	Prep Date: 2/26/2	013	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Aroclor 1260	1.848	0.10	2.004		0	92.2	31-150	0			
Surr: Decachlorobiphenyl	0.07776	0.	0.1002		0	77.6	22-156	0			
Surr: Tetrachloro-m-xylene	0.07595	0	0.1002		0	75.8	34-145	. 0			
MSD Sample ID: 130	2371-09AMSD				L	Jnits: mg/l	Kg	Analysis	Date: 2/ 2	26/2013	######################################
Client ID:	Run ID	: GC9_13	0226A		Se	qNo: 570 7	62	Prep Date: 2/26/2	013	DF: 1	
				SPK Ref			Control	RPD Ref		RPD Limit	
Analyte	Result	PQL,	SPK Val	Value		%REC	Limit	Value d	%RPD	Limit	Qua
Aroclor 1260	1.838	0.10	2.008		0	91.5	31-150	1.848	0.55	53	
Surr: Decachlorobiphenyl	0.07851	0	0.1004		0	78.2	22-156	0.07776	0.971		
Surr: Tetrachloro-m-xylene	0.07691	0	0.1004		0	76.6	34-145	0.07595	1.25		
-									*		

Client:

Cardno ATC

Work Order:

1302456

Project:

Morgens Hall; Project No.: 72.41360.0003

QC BATCH REPORT

Batch ID: 155	537 Instr	ument ID: GC9		Method	l: SW808	2	,, <u>,, ,</u> ,, ,					
MBLK	Sample ID: MBLK	-15537-15537	7				Jnits: μg/L		Analy	sis Date: 2	/26/2013	
Client ID:		Run II	D: GC9_13	0226A		Se	qNo: 5707	47	Prep Date: 2/2	6/2013	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016		ND	0.50									
Aroclor 1221		ND	0.50									
Aroclor 1232		ND	0.50									
Aroclor 1242		ND	0.50									-
Araclor 1248		ND	0.50									
Aroclor 1254		ND	0.50									
Aroclor 1260		ND	0,50									
Surr: Deca	chlorobiphenyl	0.298	0	0.5		0	59.6	37-108		0		
Surr: Tetra	chloro-m-xylene	0.324	0	0.5		0	64.8	9-136		0		
LCS	Sample ID: LCS-1	5537-15537				Ĺ	Inits: µg/L		Analy	/sis Date: 2	/26/2013	
Client ID:		Run II	D: GC9_13	0226A		Se	qNo: 5707	48	Prep Date: 2/2	26/2013	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260		8.935	0.50	10		0	89.4	61-122		0		
Surr: Deca	chlorobipheny i	0.342	0	0.5		0	68.4	37-108		0		
Surr: Tetra	chloro-m-xylene	0.327	0	0.5		0	65.4	9-136		0		
The following	g samples were an	alyzed in this batch:	13	02456-04A								

Date: 27-Feb-13

Client: Cardno ATC QUALIFIERS, Project: Morgens Hall; Project No.: 72.41360.0003 ACRONYMS, UNITS WorkOrder: 1302456

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
${f E}$	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R S	RPD above laboratory control limit
S U	Spike Recovery outside laboratory control limits
	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
sw	SW-846 Method
Units Reported	Description

% of sample $\mu g/L$ mg/Kg-dry

Sample Receipt Checklist

Client Name:	ATC-CI	<u>INCINNATI</u>			Date/Time f	Received:	26-Feb-13	11:25	
Work Order: <u>1302456</u>		<u>6</u>			Received by	r:	AMG		
Checklist comp	leted by:	Jan Wilcox esignature		26-Feb-13 Date	Reviewed by:	Chris Gibs	on		27-Feb-13 Date
Matrices: Carrier name:	Client								
Shipping contai	ner/coole	r in good condition?		Yes 🗸	No 🗌	Not Preser	nt 🗆		
Custody seals i	ntact on s	shipping container/cooler?	?	Yes 🗌	No 🗌	Not Preser	nt 🗸		
Custody seals i	ntact on s	sample bottles?		Yes 🗌	No 🗌	Not Preser	nt 🗹		
Chain of custod	ly present	1?		Yes 🔽	No 🗌				
Chain of custod	ly signed	when relinquished and re	eceived?	Yes 🗸	No 🗆				
Chain of custod	ly agrees	with sample labels?		Yes 🗸	No 🗔				
Samples in prop	per contai	iner/bottle?		Yes 🗸	No 🗆				
Sample contain	ers intact	?		Yes 🗸	No 🗌				
Sufficient samp	ie volume	e for indicated test?		Yes 🗸	No 🗌				
All samples rec	eived with	nin holding time?		Yes 🗸	No 🗔				
Container/Temp	o Blank te	emperature in compliance	?	Yes 🗹	No 🗌				
Temperature(s)	/Thermor	meter(s):		4.2					
Cooler(s)/Kit(s)	:								
Water - VOA vi	als have a	zero headspace?		Yes 🗵	No 🗵	No VOA vials s	submitted	Ė	
Water - pH acc	eptable u	pon receipt?		Yes 🗵	No 🗵	N/A			
pH adjusted? pH adjusted by:	:			Yes	No 🗵	N/A 🖺			
Login Notes:									
Client Contacte	d;		Date Contacted	:	Person	Contacted:			
Contacted By:			Regarding:						
Comments:									
CorrectiveActio	n:							SRC	Page 1 of 1